Table 1. Concentrations of total PCBs in tissue predicted using the FWM based on anthropogenic background sediment concentrations

Species (Tissue Type)	FWM-Predicted Total PCB Tissue Concentration (µg/kg ww)[a]
Clam	20
Crab (edible meat)[b, c]	25
Crab(whole body)[b]	100
Shiner surfperch (whole body)	230
English sole (edible meat)[c]	140
English sole (whole body)	230
Rockfish (whole body)	490

[a] Predicted tissue concentrations were calculated using the calibrated EW FWM. Sediment was set equal to the anthropogenic background value of 31 µg/kg dw and water was assumed to be equal to 0.6 ng/L (following the rules defined in the EW SRI [Appendix C]). Concentrations were rounded to two significant figures.

[b] Crab concentrations represent the average of FMW predictions for red rock crab and Dungeness crab.

[c] Consistent with the EW SRI, crab edible meat concentrations were calculated from whole body tissue concentrations using an edible meat-to-whole body conversion factor (whole body concentrations were multiplied by the factor of 0.423 for red rock crab and by a factor of 0.206 for Dungeness crab to calculate the edible meat concentration).

[d] Consistent with the EW SRI, English sole fillet concentrations were calculated from whole body tissue concentrations using a fillet-to-whole body conversion factor (whole body concentrations were multiplied by the factor of 0.582 to calculate the fillet concentration).

EW – East Waterway

FWM – food web model

PCB – polychlorinated biphenyl

SRI – Supplemental Remedial Investigation

ww – wet weight

Table 2. Concentrations of dioxins/furans in tissue predicted using BSAFs and anthropogenic background dioxin/furan sediment concentrations

Species (Tissue Type)	Dioxin/Furan Compound	BSAF[a]	Anthropogenic Background Sediment Concentration[b] (ng/kg dw)	BSAF-predicted Tissue Concentration (ng/kg ww)
English Sole (whole body) lipid = 3.0%[c]	2,3,7,8-TCDD	0.44	0.71	0.47
	2,3,7,8-TCDF	0.21	1.2	0.38
	1,2,3,7,8-PeCDD	0.17	2.1	0.54
	2,3,4,7,8-PeCDF	0.1	1.1	0.17
Shiner surfperch (whole body) lipid = 5.4%[c]	2,3,7,8-TCDD	0.15	0.71	0.29
	2,3,7,8-TCDF	0.22	1.2	0.71
	1,2,3,7,8-PeCDD	0.06	2.1	0.34
	2,3,4,7,8-PeCDF	0.03	1.1	0.09
Crab (whole body) lipid = 0.95%[c]	2,3,7,8-TCDD	0.39	0.71	0.13
	2,3,7,8-TCDF	1.04	1.2	0.59
	1,2,3,7,8-PeCDD	0.29	2.1	0.29
	2,3,4,7,8-PeCDF	0.17	1.1	0.09
Brown rockfish (whole body) lipid = 3.3%[c]	2,3,7,8-TCDD	0.53	0.71	0.62
	2,3,7,8-TCDF	0.48	1.2	0.95
	1,2,3,7,8-PeCDD	0.17	2.1	0.59
	2,3,4,7,8-PeCDF	0.04	1.1	0.07

[a] BSAF values are those calculated in Appendix C of the EW SRI. The BSAFs are the mean BSAF for each compound and tissue type.

[b] Sediment total organic carbon was assumed to be 2%, consistent with methodology used in Section 9 of the EW Feasibility Study to calculate predicted tissue dioxin/furan TEQ values.

[c] Tissue lipid values are the mean lipid values for tissue samples analyzed for dioxin/furan for each tissue type consistent with the lipid values used in Section 9 of the EW Feasibility Study.

dw – dry weight

BSAF – biota-sediment accumulation factor

EW – East Waterway

SRI – Supplemental Remedial Investigation

TEQ – toxic equivalent

ww – wet weight